

HISTORIC AMERICAN ENGINEERING RECORD
INDEX TO PHOTOGRAPHS

SOUTH CANAL

HAER No. AZ-52

South of the Salt River

Mesa Vicinity

Maricopa County

Arizona

are historic images that

Images AZ-52-1 through AZ-52-25 are photocopies of historic photographs. Images AZ-52-26 through AZ-52-47 were taken by Salt River Project (SRP) Photographers on 4" x 5" negatives. Drawings AZ-52-48 through 58 are photographs of reduced drawings on 8" x 10" negatives.

- AZ-52-1 Headgate and sluiceway on High Line [Highland] Canal, five miles north of Mesa, Arizona.
Photographer Walter J. Lubken, September 5, 1906.
Source: SRP Research Archives.
- AZ-52-2 Consolidated Canal near Mesa, Arizona.
Photographer Walter J. Lubken, September 6, 1906.
Source: SRP Research Archives.
- AZ-52-3 Granite Reef. View of south side intake gates.
Photographer Walter J. Lubken, September 29, 1907.
Source: SRP Research Archives.
- AZ-52-4 Looking down South Canal from the entrance.
Photographer Walter J. Lubken, March 25, 1907.
Source: SRP Research Archives.
- AZ-52-5 Sluiceways and concrete bridge across the new High Line [South] Canal on south side of Salt River, just below the Granite Reef Dam.
Photographer Walter J. Lubken, February 4, 1909.
Source: SRP Research Archives.
- AZ-52-6 South side canal; outlet end of concrete culvert.
Photographer Walter J. Lubken, February 4, 1909.
Source: SRP Research Archives.
- AZ-52-7 South canal spillway; 700 second feet of water passing through.
Photographer Walter J. Lubken, April 29, 1910.
Source: SRP Research Archives.

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- AZ-52-8 South Canal, looking west. Granite Reef Dam, Arizona.
Note the use of horse-drawn scrapers.
Photographer Walter J. Lubken, February 18, 1907.
Source: SRP Research Archives.
- AZ-52-9 Aerial view of the site of the first hydropower plant on the South Canal.
Photographer Fairchild Aerial Surveys, 1934.
Source: SRP Research Archives.
- AZ-52-10 First South Consolidated Power Plant.
Photographer unknown, ca. 1920.
Source: SRP Research Archives.
- AZ-52-11 Second South Consolidated Power Plant.
Photographer and date unknown.
Source: SRP Research Archives.
- AZ-52-12 Aerial view of South Consolidated Power Plant and housing for the three
operators.
Photographer unknown, April 11, 1950.
Source: SRP Research Archives.
- AZ-52-13 Aerial view of Division Gates at the end of the South Canal.
Photographer R. L. Coggins, 1947.
Source: SRP Research Archives.
- AZ-52-14 Photograph of crews scraping the bed of the South Consolidated Canal.
Photographer unknown, March 13, 1920.
Source: SRP Research Archives.
- AZ-52-15 A dredger excavating the South Canal.
Photographer unknown, October 29, 1925.
Source: SRP Research Archives.
- AZ-52-16 Extending the South Canal.
Photographer unknown, ca. 1920s.
Source: SRP Research Archives.

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- AZ-52-17 South Canal Construction Camp.
Photographer unknown, ca. 1920s.
Source: SRP Research Archives.
- AZ-52-18 South Canal Construction, utilizing railroad engines and cars from Magma
Copper Company.
Photographer unknown, ca. 1925.
Source: SRP Research Archives.
- AZ-52-19 Newly lined section of the Eastern Canal (now South Canal) below the Roosevelt
Water Conservation District (RWCD) pumping plant. Water ponded on bottom to
cure gunite. Workmen shown splashing water against the sides with shoves.
Photographer unknown, ca. 1927.
Source: SRP Research Archives.
- AZ-52-20 Break in South Canal repaired by Civilian Conservation Corps and project crews.
3,000 cubic yards of fill placed and packed in less than three days. Nine dump
trucks, two "cats" with bulldozers and two draglines were used. The fill was
immediately gunited and the canal partially back in service in 80 hours.
Photographer T. A. Hayden, April 6, 1937.
Source: SRP Research Archives.
- AZ-52-21 Trapezoid-shaped lateral off of the South Canal.
Photographer and date unknown.
Source: SRP Research Archives.
- AZ-52-22 SRP crew applying gunite to South Canal.
Photographer and date unknown.
Source: SRP Research Archives.
- AZ-52-23 SRP crew patching a hole in the South Canal with a compound of glass and
monoform.
Photographer unknown, February 7, 1962.
Source: SRP Research Archives.
- AZ-52-24 South Canal before cleaning prior to lining project. Raises in the levels of lining
are noticeable on the far side of the canal.
Photographer unknown, January 22, 1962.
Source: SRP Research Archives.

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- AZ-52-25 Photograph showing where the Consolidated Canal Company utilized old prehistoric canal and today is sending water through it.
Photographer Walter J. Lubken, February 17, 1907.
Source: SRP Research Archives.
- AZ-52-26 Intake gates, South Canal, facing north.
Photographer James Eastwood, June 3, 1997
Source: SRP Research Archives.
- AZ-52-27 Combination sluice gate, check gate and bridge, facing north.
Photographer Mark Durben, 1992.
Source: SRP Research Archives.
- AZ-52-28 Close-up of gears operating the sluice gates.
Photographer Mark Durben, 1992.
Source: SRP Research Archives.
- AZ-52-29 Concrete bridge showing semi-elliptical arch spans.
Photographer James Eastwood, December 1997.
Source: SRP Research Archives.
- AZ-52-30 Looking south at siphon under the South Canal.
Photographer James Eastwood, September 1992.
Source: SRP Research Archives.
- AZ-52-31 U.S. Reclamation Service diversion structure at entrance to the first South Consolidated Canal hydropower plant, facing west.
Photographer James Eastwood, June 3, 1997
Source: SRP Research Archives.
- AZ-52-32 First South Consolidated Canal hydropower plant, facing west.
Photographer James Eastwood, 1992.
Source: SRP Research Archives.
- AZ-52-33 Third South Consolidated hydropower plant, facing east.
Photographer James Eastwood, May 9, 1997.
Source: SRP Research Archives.

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- AZ-52-34 The drop to the South Canal following the division to the Eastern Canal, facing northwest.
Photographer James Eastwood, March 1993.
Source: SRP Research Archives.
- AZ-52-35 Division Gates, facing south.
Photographer James Eastwood, June 1997.
Source: SRP Research Archives.
- AZ-52-36 Siphon, allowing water to wash over canal, facing west.
Photographer James Eastwood, September 1992
Source: SRP Research Archives.
- AZ-52-37 Hennessey Drain facing north as it empties into the Salt River.
Photographer James Eastwood, January 1993.
Source: SRP Research Archives.
- AZ-52-38 RWCD Pump House and diversion gates, facing southeast.
Photographer James Eastwood, January 1993.
Source: SRP Research Archives.
- AZ-52-39 Lateral on north side of South Canal, looking south, up the lateral. The South Canal is at the top of the hill.
Photographer James Eastwood, May 1997.
Source: SRP Research Archives.
- AZ-52-40 Demossing structure located in Section 31, Township 2 North, Range 6 East, looking south.
Photographer James Eastwood, June 1997.
Source: SRP Research Archives.
- AZ-52-41 Supervisory Control and Data Acquisition (SCADA) equipment, including still well, control box, and antennae located at the South Canal division gates near the hydropower plant, looking west.
Photographer James Eastwood, March 1993.
Source: SRP Research Archives.

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- AZ-52-42 Val Vista Water Treatment Plant taking water from the South Canal, facing southwest.
Photographer James Eastwood, May 1997.
Source: SRP Research Archives.
- AZ-52-43 Forebay and radial gates of the SRP/Central Arizona Project (CAP) Interconnection Facility, facing south. Water from CAP canal entering the South Canal.
Photographer James Eastwood, December 1997.
Source: SRP Research Archives.
- AZ-52-44 Radial gates at the Hennessey Drain, facing south.
Photographer James Eastwood, January 1993.
Source: SRP Research Archives.
- AZ-52-45 SRP well with recharge equipment at SRP coordinates 30E - 5.9N, looking northeast.
Photographer James Eastwood, May 1997.
Source: SRP Research Archives.
- AZ-52-46 Safety steps on South Canal near inlet in Section 27, Township 2 North, Range 6 East, facing south.
Photographer James Eastwood, September 1992.
Source: SRP Research Archives.
- AZ-52-47 South Canal maintained by SRP near the division gates.
Photographer James Eastwood, May 1997.
Source: SRP Research Archives.
- AZ-52-48 Gates for South Canal 1600' below intake.
January 11, 1909.
- AZ-52-49 Raft for turbine pit South Consolidated Plant.
May 23, 1913.
- AZ-52-50 South Consolidated Power Plant and vicinity.
April 25, 1930. Undated revisions.

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- AZ-52-51 South Consolidated Low Head Hydro Power Plant, general arrangement Salt River Plan.
Revised April 30, 1981.
- AZ-52-52 Flume, end of bypass South Canal to Main Consolidated Canal.
May 14, 1914.
- AZ-52-53 Sketch showing part of Consolidated Canal destroyed in flood of February 21, 1920 and relocated portion constructed after flood.
1920.
- AZ-52-54 Details and assembly of radial gate extension for Hennessy Wasteway - South Canal at 0.9.
November 12, 1954.
- AZ-52-55 Enlarging Eastern Canal, stations 0+00 to 244+00. Grades, sections and structures.
October 1, 1921.
- AZ-52-56 Cross sections in South Canal, Sections 27 and 28, Township 2 North, Range 6 East.
September 1958.
- AZ-52-57 Plan, sections and details of south end of grit collector and demossing conveyor with trash bay at South Canal demossing site.
October 4, 1966, revised December 23, 1969.
- AZ-52-58 Drawing of the Division Gates at the end of the South Canal.
1914.